Lesson Title: Where in the world is the fastest rollercoaster?

Related Lessons: May the FORCE be with you.

Grade Level: Middle grades

Unit: 05- Force and Motion

GOALS

Content Standards:

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|  | »  [SC.6.P.13.1: Investigate and describe types of forces including contact forces and forces acting at a distance, such as electrical, magnetic, and gravitational.](javascript:__doPostBack('ctl00$ContentPlaceHolder1$FlStandardSearch$StandUc1$BenchmarkGrid$ctl00$ctl05$HyperLink2','')) |

ISTE NETS-S

* 1. Creativity and innovation
* 2. Communication and collaboration
* 3. Research and information fluency
* 4. Critical thinking, problem solving, and decision making
* 5. Digital citizenship
* 6. Technology operations and concepts

Instructional Objectives:

The purpose of this lesson is to engage students more deeply in their understanding of forces.

ACTION

**Before-Class Preparation:** Students will do a scavenger hunt for rollercoasters. Teacher should work with Geography teacher. Letting them know what countries they will be focusing on.

**During Class:**

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| Time | Instructional Activities | Materials & Resources |
| 20-25 minutes | **Teacher will explain how to create a graphic organizer for roller coasters using Inspiration** | **Classroom projector, Inspiration teacher created presentation** |
| 20-25  minutes | **Students will work with partner to create a word web for roller coaster.** | **Student computers, teacher computer** |
| 45 minutes | **Student will focus on area of word web for study. For example What is the top speed of a roller coaster? Partners will research question.** | **Computers,** |
| 45 minutes | **When students find all information on roller coasters word web students will Skype with students from social studies class to find out about the country/area the roller coaster was in.** | **Computers, Skype program, web camera** |
| 45 minutes | **Students will share information that they found out about the roller coaster through Skype to students in the Geography class** | **Computers, Skype program, web camera** |
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**MONITER**

Ongoing Assessment: Teacher will rotate through the class to make sure students are completing research. Students will participate in communication with other class.

Accommodations and Extensions: Students with special needs will be working with a partner to assist with any needs. These students will also be placed in locations that will be accessible for better viewing of presentation.

Backup Plan: Students can participate on a student to student access if possible or class to class if not enough equipment is available.

EVALUATION

**Lesson Reflections and Notes:** Students are evaluated through participation in Skype presentations, and graphic organizer.